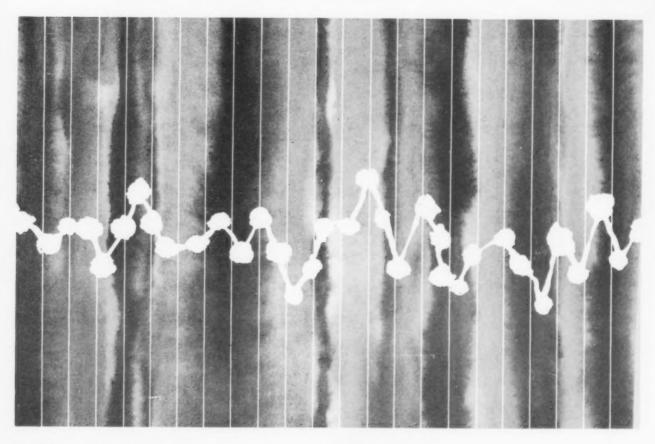
defense indicators

MARCH 1975





U.S. DEPARTMENT OF COMMERCE . Social and Economic Statistics Administration . BUREAU OF ECONOMIC ANALYSIS



U. S. DEPARTMENT OF COMMERCE

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1975.

This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

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defense indicators

March 1975 Series ES4 No. 75-3

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6 SESA PROJECTS

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BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together approximately 600 economic time series in a form convenient for analysts whether their approach to the study of current business conditions and prospects is the national income model, the leading indicators, anticipations and intentions, or a combination of these. Other types of data such as foreign trade, Federal Government activities, and international series are included to facilitate a more complete analysis.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

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This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

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This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

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SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X-11 variant is used for adjusting monthly data and the X-11Q for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported currently in the *Survey of Current Business*.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense-Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)

Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (BEA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)
Defense Department gross obligations incurred, procurement (DOD)

Gross obligations incurred outside the Government for national defense (Treasury)

Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accessions, defense products industries (BLS)

Layoffs, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Manufacturers' inventories (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census)

Defense Department progress payments outstanding (DOD) Employment in defense products industries, total (BLS)

Employment in defense products industries, production workers (BLS)

Index of aggregate weekly man-hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department manpower, military (DOD)

Defense Department manpower, civilian (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury) Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census):

Ratio, manufacturers' unfilled orders to shipments (Census):

Defense products industries

Defense products

Ratio, manufacturers' inventories to shipments (Census):

Defense products industries

Defense products

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures-imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly Status of Funds report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The Status of Funds report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts	372 1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	19
Communication equipment	366 372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).²

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

¹ An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrie! Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

New Features and Changes for This Issue

1. New seasonal adjustment factors for 35 series have been computed using the X-11 variant of the Census Method II seasonal adjustment program. These factors are shown through June 1975 in appendix A. The table below shows the beginning month (or quarter) for application of the new seasonal factors to each series.

Series number	Beginning month for new factors	Series number	Beginning month for new factors	Series number	Beginning month for new factors
617 619 621 623 625 626 627	January 1971 December 1974 January 1975 November 1974 January 1975 IVQ 1974 IVQ 1974	634 635 636 637 640 643 644	IVQ 1974 IVQ 1974 IVQ 1974 IVQ 1974 IVQ 1974 IVQ 1974 December 1974 December 1974	664 670 671 673 675 680 681	IVQ 1974 January 1968 January 1968 January 1968 January 1968 January 1975 January 1975
629 630 631 632 633	IVQ 1974 IVQ 1974 IVQ 1974 IVQ 1974 IVQ 1974	645 650 653 654 655	December 1974 IVQ 1974 January 1968 January 1968 January 1968	682 683 685 689	January 1975 January 1973 July 1972 IVQ 1974

2. In addition to m new seasonal adjustment, series 653, 654, 655, 670, 671, 673, and 675 are also revised for the period 1968 through August 1974 to incorporate the source agency's recent adoption of a new benchmark (March 1973) for factory employment and earnings data. (See the December 1974 issue.) Revised data for September 1974 to date were first shown in the December 1974 issue.

The April issue of DEFENSE INDICATORS is scheduled for release on April 29.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

					Basic	data					Percen	t change		3
Series title	Unit of	Ave	rage							Dec. 74	Jan. '75	2d Q '74	3d Q 74	Ein
34.34.400	measure	1973	1974	2d Q 1974	3d Q 1974	4th Q 1974	Dec. 1974	Jan. 1975	Feb. 1975	to Jan. '75	to Feb. '75	to 3d Q '74	to 4th Q '74	Series
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														Γ
200. Gross national product (BEA)	Ann, rate, bil, dol	1204 9	1397.4	1383.8	1416.3	1430.2						2,3	1.0	20
264. Federal Government purchases of goods and services, national defense (BEA)	do	74.4	78.7	76.6	78.4	84.0						2.3	7.1	20
513. National defense purchases as a percent of GNP (BEA) ⁴	Percent	5.8	5.0	5.5	5.5	5.9						0.0	0.4	6
ADMANCE INDICATORS OF DEFENCE ACTIVITY														L
ADVANCE INDICATORS OF DEFENSE ACTIVITY														ı
Defense Dept. gross obligations incurred (DOD): 617. Total	Ann. rate,													L
621. Procurement	bil. dol,	85.5 18.8	93.9	92.5	97.8	96.0	97.4	98.1	NA NA	-9.5 -0.6	NA NA	5.7	-1.8	6
23. Gross obligations incurred outside the Federal Government for national defense (Treasury)	do	89.1	NA	97.8	108.2	NA	NA	NA	MA	NA.	NA	10.6	NA	6
25. Defense Department military prime contract awards for work performed in the U.S. (DOD)	do									45.7	NA	4.4	-6.1	1
43. Defense Department gross unpaid obligations	Bil. dol., end	35.3	41.4	42.7	44.6	41.9	30.4	44.3	NA					6
outstanding (DOD). 48. Mfrs.' new orders, defense products (Census)	of period Ann. rate,	36.6	40.0	38.9	40.5	40.0	40.0	39.8	NA	-0.5	NA	4.1	-1.2	6
50. Manufacturers' new orders from the U.S.	bil, dal	20.5	22.8	21.4	25.1	21.7	20.0	19.6	24.0	-2.0	22.4	17.3	-13.5	6
Government, aerospace industries (Census)	do	15.9	NA	12.4	21.8	NA		***		***		75.6	MA	6
 Average weekly overtime hours, production workers, defense products industries (BLS)¹ 	Hours	3.1	2.8	2.8	2.8	2.6	2.6	2.4	NA	-0.2	NA	0.0	-0.2	6
54. Accessions, defense products industries (RLSI)*	Number per 100 employees	2.2	2.1	2.2	2.3	1.7	1.0	NA	NA	NA	NA	0.1	-0.6	6
55. Layoffs, defense products industries (BLS)*	do	0.6	0.6	0.6	0.6	0.7	0.8	MA	NA	NA	NA	0.0	0.1	6
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
557. Dutput of defense and space equipment (FRB)	1967=100 Bil. dol., end	90.4	82.4	81.5	82.8	83.8	83.5	83.6	81.6	0.1	-2.4	1.6	1.2	6
361, Mfrs.' unfilled arders, defense products (Census)	of period	5.6	24.6	6.2	6.4	6,5	24.6	6.5	24.9	0.0	1.2	7.6	2.5	6
64. Manufacturers' unfilled orders from the U.S. Government, perospace industries (Census)	do	16.4	NA	16.9	18.7	NA						10.7	NA	6
66. Defense Department progress payments out- standing (DOD)	do	7.4	9.2	8.1	8.5	0.3				-		4.9	8.2	6
imployment in defense products industries (BLS):						9.2		***		***	***			1
670. Total	Thousands	1,161	1,161	1,162	1,154 598	1,169	1,161	1,157	NA	-0.3	NA NA	-0.7	1.3	6
 Index of aggregate weekly man-hours, defense products industries (BLS) 	1967=100	69.1	68.4	68.5	67.7	68.8	68.3	58.2	NA	-0.1	NA	-1.2	1.6	6
 Index of aggregate weekly payrolls, production workers, defense products industries (BLS) 	do	91.9	96.5	95.9	94.6	100.7	100.3	100.8	NA	0.5	NA	-1.4	6.4	6
Defense Department manpower (DOD): (0)	Thousands, end		,,,,		7110	200.1	100.2	20010		0.2		-2.4	0,1	ľ
677. Military	of period	2,202	2,140	2,162	2,157	2,140	2,140	2,145	2,146	0.2	0.0	-0.2	-0.8	6
678. Civilian	do	1,026	1,043	1,070	1,049	1,043	1,043	1,033	NA	-0.5	NA	-2.0	-0.6	6
680. Total, military functions and military assistance.	Ann. rate, bil. dol	76.3	83.5	80.4	86.6	89.3	90.6	81.2	90.8	-10.4	11.8	2.2	3.1	6
682, Procurement	do	15.7	15.5	15.0	14.3	17.8	18.8	17.1	17.3	-9.0	1.2	7.7	24.5	6
83. Budget outlays for the national defense function (Treasury)	do	78.1	84.3	*1.7	85.4	92.0	93.7	84.5	NA	-9.8	NA	4.5	7.7	6
85. Defense Dept, personnel compensation (DOD) 88. Mfrs.' shipments, defense products (Census)	do	32.4	33.5 18.9	33.1 19.1	33.8	34.6 19.1	35.1	32.9	NA 20.6	-6.3 3.7	NA 4.6	2.1	2.4	6
 Manufacturers' shipments to the U.S. Government, aerospace industries (Census) 							17.0	7501	20.0	20.1	4.0			
91. Ratio, manufacturers' unfilled orders to shipments,	do	14.4	NA:	15.2	15.4	NA.	***	***		***		1.3	NA	6
defense products (Census) 93. Ratio, manufacturers' inventories to shipments,	Ratio	12.7	14.5	13.8	15.4	15.3	15.5	15.0	14.5	-3.2	-3.3	11,6	-0.6	6
defense products (Census)	do	3,5	3.9	3.8	4.2	4.1	4.1	4.0	NA	-2.4	NA	10,5	-2.4	6
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales	Ann, rate,													
contracts—exports (BEA)*. 547. Direct defense expenditures—imports (BEA)*	mil. dol	2,354	2,966	2,604	3,220	3,376		***		***	***	616	156	5
696. U.S. Government cash receipts associated with		4,620	5,065	5,276	5,112	5,208		***		***	***	-164	96	54
military sales contracts (BEA)1	,,,do	2,290	2,903	2,676	3,884	2,968		***				1,208	-916	69

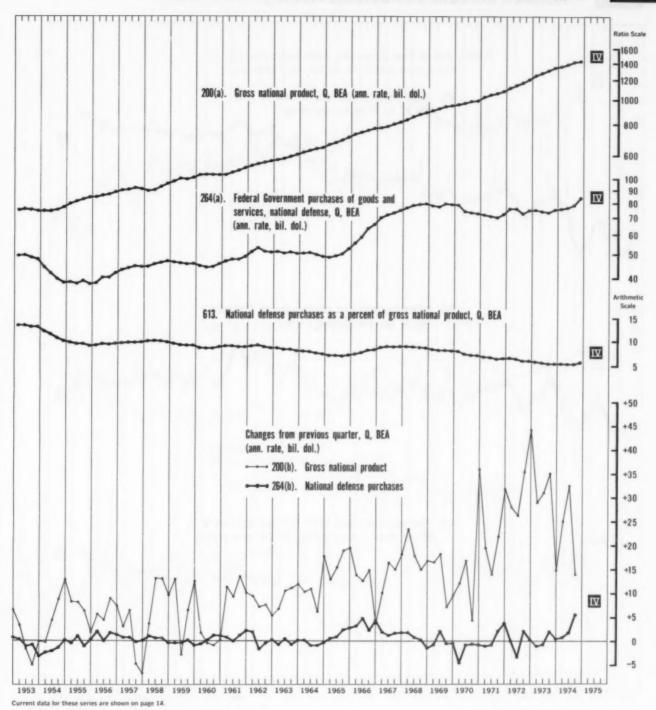
NOTE. This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies, otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are associately adjusted except for those indicated by Q₀, which appear to contain no seasonal movement.

NA = not available.

Differences rather than percent changes are shown for this series.

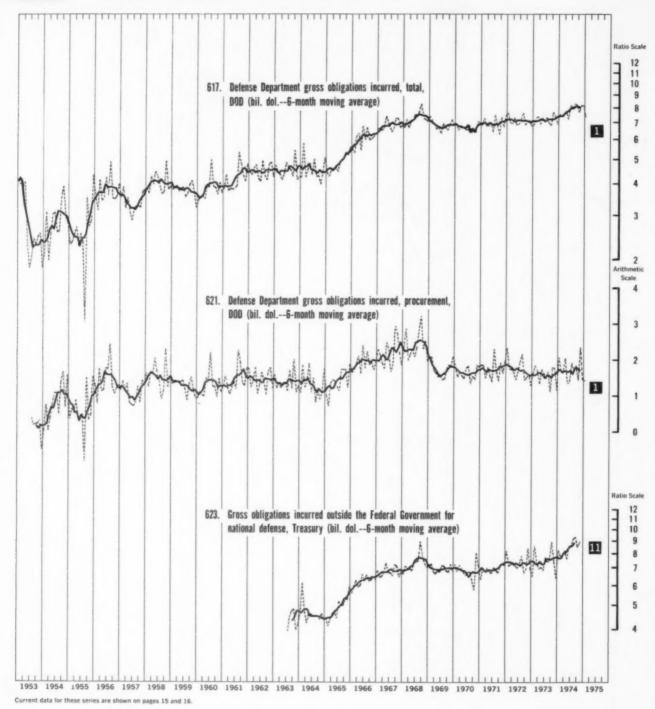
Gross National Product and National Defense Purchases

CHART

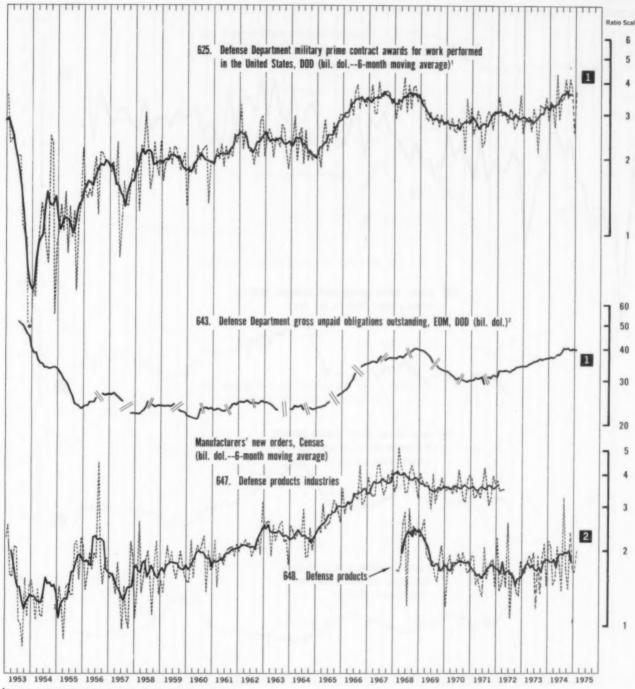




Advance Indicators of Defense Activity





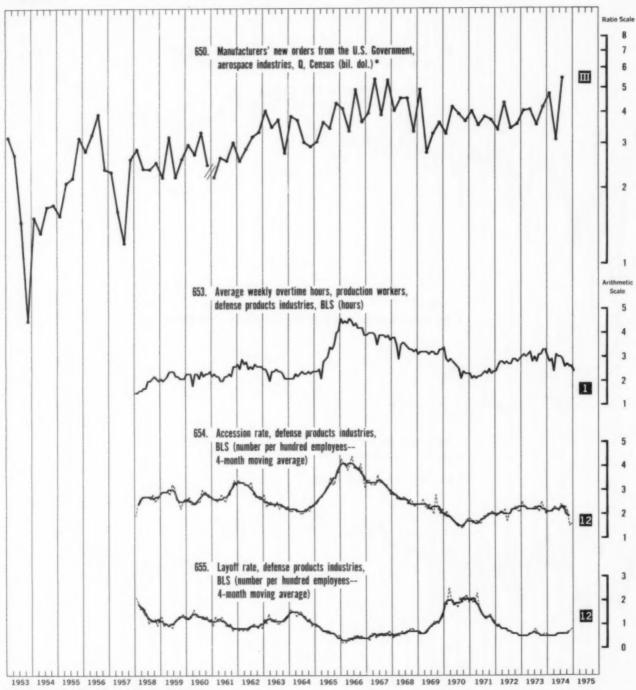


Data prior to July 1955 exclude orders written to other Government agencies

*Data for the following months not available: July of 1956-71; August all 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963. *Contract awards for November 1953-\$265 million; December 1953-\$390 million.

Current data for these series are shown on pages 16 and 20.





^{*}Data prior to 1961 include orders from non-Government cust Current data for these series are shown on pages 20 and 21.

CHART

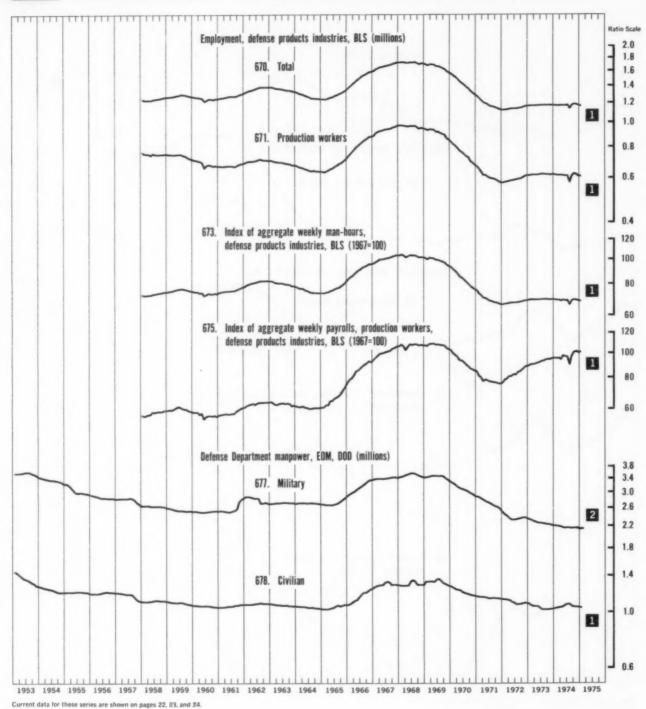
Intermediate and Final Indicators of Defense Activity



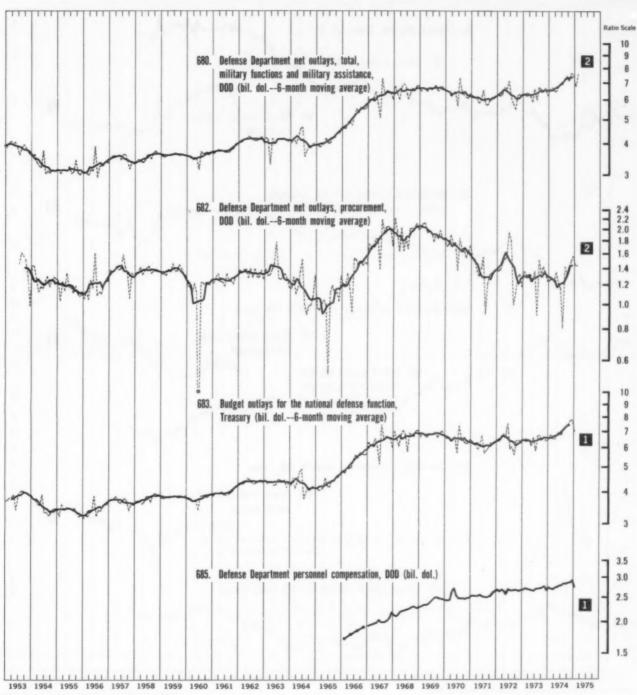
* Data prior to 1961 include orders from non-Government customers.

Current data for these series are shown on page 22.



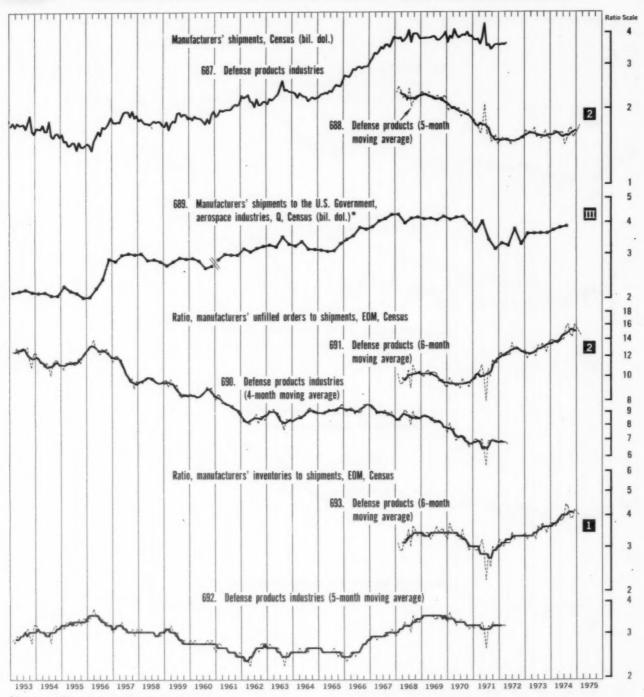






* Net expenditures for procurement, June 1960--\$245 million Current data for these series are shown on pages 24 and 25.



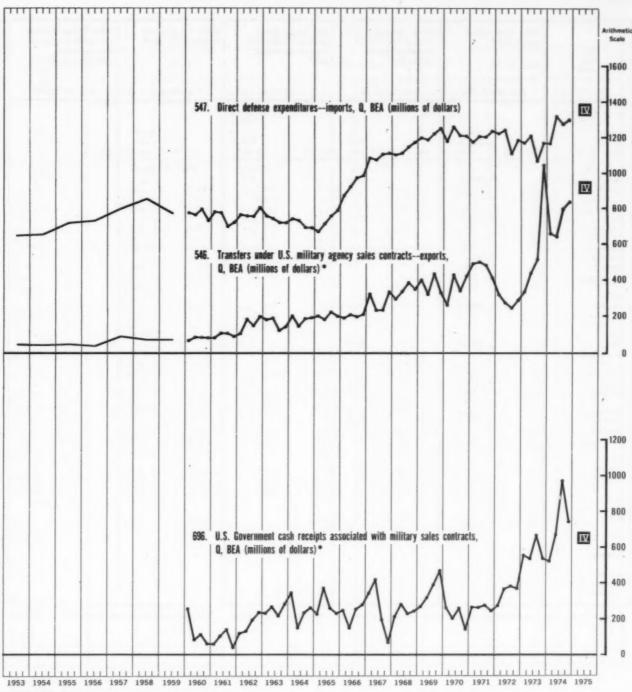


^{*} Data prior to 1961 include shipments to non-Government customers.

Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components





*See note on page 21.
Current data for these series are shown on page 27.



Gross National Product and National Defense Purchases

Year and month	200(a). Gross national product, BEA*	264(a). Federal Govern- ment purchases of goods and services, national defense, BEA*	613. National defense purchases as a percent of gross national product, BEA*	200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1973					
January	***			44.2	0.3
February	1,248.9	75.0	6.0	***	***
March	***	***	***	***	***
April		***	***	29.0	-1.0
May	1,277.9	74.0	5.8	***	***
June	***	***	***	***	***
July				31.0	-0.7
August	1,308.9	73.3	5.6	***	***
September	***	***	***	***	***
October				35.1	2.0
November	1,344.0	75.3	5.6	***	***
December	***	***	***	***	•••
1974					
January			***	14.8	0.5
February	1,358.8	75.8	5.6	***	
March	***	***	***	***	***
April				25.0	0.8
May	1,383.8	76.6	5.5	***	***
June	***	***	***	***	***
July				32.5	1.8
August	1,416.3	78.4	5.5		
September	***				
October				13.9	5.6
November	1,430.2	84.0	5.9	22.7	7.0
December					
1975					
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. "Indicates series shown in charts. (See page 5.)



Advance Indicators of Defense Activity

					obligations incurred,				
Year		617. Total		619. 0	perations	621. Procurement			
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted ^a	Moving average of seasonally adjusted data— 6-month*	
	(Mil. dol.)	(Mil, dol.)	(Mil, dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
	(mm sen)	Revised ¹	Revised ¹		(1)		(1)	(²)	
1973 January	7,414 6,691	6,827 7,283	7,051 7,026 7,053	4,688 4,097 4,174	4,494 4,656 4,427	1,815 1,785 1,435	1,631 1,838 1,704	1,595 1,569 1,588	
March	6,716 6,342 5,997 9,327	7,362 6,865 7,275 6,992	7,101 7,181 7,123	4,522 4,195 5,122	4,445 4,393 4,471	1,028 1,171 2,871	1,349 1,730 1,633	1,648 1,623 1,596	
July August September	8,180 7,505 6,289	7,312 6,932 6,790	7,028 7,162 7,169	5,334 4,634 4,201	4,679 4,552 4,429	1,019 1,393 1,168	1,483 1,676 1,099	1,495 1,568 1,575	
October	8,074 6,917 6,041	7,671 7,315 6,850	7,145 7,181 7,259	5,024 4,346 4,133	4,716 4,652 4,643	2,105 1,714 1,321	1,788 1,771 1,149	1,494 1,593 1,599	
January	8,113 6,826 6,613	7,527 7,398 7,485	7,374 7,390 7,368	4,991 4,187 4,377	4,714 4,758 4,699	2,337 1,677 1,381	2,077 1,708 1,642	1,689 1,731 1,658	
March	7,375 6,104 10,110	7,762 7,187 8,166	7,588 7,664 7,810	4,982 4,434 6,170	4,804 4,662 5,466	1,546 894 2,465	2,040 1,330 1,412	1,702 1,675 1,672	
July	9,285 8,874	7,983 8,279 8,179	7,926 7,912 8,083	5,901 5,224 4,771	5,110 5,203 5,040	1,332 1,416 1,919	1,919 1,692 1,842	1,706 1,607 1,777	
October November December	7,965 7,600	7,681 8,211 8,116	8,075 7,968 (NA)	5,394 4,471 4,826	4,999 4,786 r5,334	1,709 2,281 1,646	1,446 2,349 1,431	1,780 1,697 (NA)	
January February March	(NA)	7,341 (NA)		5,471 (NA)	5,148 (NA)	1,895 (NA)	1,424 (NA)		
April									
July									
October									

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 6.)

1 See "New Features and Changes for This Issue," page 3.



	623. Gross oblig outside the Fede ment for national	ral Govern-			Defense Departme work perform	nt military prime ned in the United		r	
Year	Treasury	ii oerense,		625. Total		626.	Aircraft	627. Missili syst	e and space ems
and month	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.) (Mil. dol.)		(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973	(1)	(1)		(1)	(1)		(1)		(1)
January February March	6,496 8,706 7,421	7,490 7,501 7,281	2,578 2,418 2,841	2,824 2,899 2,947	2,956 2,893 2,824	728 328 721	1,942	377 297 504	1,30
April	6,986 7,098 p6,877	p7,264 p7,477 p7,266	1,854 2,489 5,122	2,568 3,171 2,897	2,884 2,765 2,828	122 866 1,243	1,948	233 129 349	96'
July	7,773 7,441 7,588	p7,294 p7,619 p7,672	2,357 3,224 3,309	2,106 3,276 3,222	2,873 2,975 3,032	396 611 867	1,804	207 921 435	1,200
October	8,935 7,417 6,396	7,592 7,674 7,746	3,198 2,967 2,944	3,176 3,515 2,850	3,024 3,236 3,214	939 686 316	2,150	368 283 563	1,13
January February March	8,264 7,874 7,819	7,784 7,673 7,712	3,084 2,613 2,602	3,378 3,141 2,677	3,123 3,317 3,212	1,093 598 517	2,424	206 305 255	844
April	8,270 7,647 p8,534	p8,068 p8,112 p8,333	3,127 2,250 6,086	4,343 2,881 3,440	3,310 3,329 3,498	459 308 502	1,104	303 297 323	1,27
July	8,526 9,202 9,326	p8,584 p8,623 p8,842	3,924 4,091 3,586	3,494 4,153 3,502	3,636 3,605 3,754	1,089 591 866	2,446	618 430 848	1,44
October	8,503 8,963 (NA)	(NA)	4,165 3,207 2,616	4,161 3,777 2,532	3,603 3,636 (NA)	1,156 856 569	r2,900	410 434 361	rl,10
January February			3,567 (NA)	3,693 (NA)		1,062 (NA)		346 (NA)	
April									
July									
October November December									

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 6 and 7.)

1 See "New Features and Changes for This Issue," page 3.



			Defense Department n in the	nilitary prime contract a United States, DOD-C	wards for work perform	ned		
Year and	628. Ships, not seasonally adjusted	629. Weapon	s and ammunition	630. Electronic	and communications ipment	631. Co	mbat vehicles	
month		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)			
1973			(¹)		(1)	(Mil. dol.)	(Mil. dol.)	
January	84	207		024	.,		(1)	
February	378 85	226 195	. 658	214 215 420	939	14, 11, 11		
April	82 78 139	150 184 566	725	237 351	959	12		
July				654	***	54		
August September	337 220 203	21 81 114	436	131 354 313	990	50 24 27	8	
October	161	105		248				
December	465 588	106 192	310	392 261	900	116 21 56	21	
January	52 212 103	135 244 142	541	311 415 206	1,013	102	25.	
AprilMay	190 155 1,175	170 123 554	680	403 270	1,110	40 129 98	502	
uly	230	37		732		404	***	
eptember	625 134	72 111	453	321 402 352	1,316	59 104 151	249	
ctober	210 328	122		598			***	
ecember	109	114	r334	349 254	rl,239	25 22 81	r126	
nuary	325 (NA)	125 (NA)		414 (NA)		21 (NA)		
oril						(mg)		
y	λ.							
tober								

NA=not available; p=preliminary; r=revised; e=estimated.

¹ See "New Features and Changes for This Issue," page 3.



			Defense Depar		e contract awards for es, DOD-Continued	work performed		
	632, Othe	er hard goods	633. 5	Soft goods	634. Co	onstruction	635.	Services
Year and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973		(1)		(1)		(1)		(¹)
January February March	140 141 130	458	141 112 102	519	103 205 131	484	154 140 152	755
April	145 128 393	480	113 97 158	488	153 151 493	442	195 137 446	776
July	65 117 106	432	489 177 186	553	34 111 101	377	341 265 252	653
October	133 142 108	365	154 235 228	600	147 54 86	450	388 161 178	663
January February March	128 111 179	467	297 145 487	1,374	90 52 92	258	204 138 181	900
April	294 139 352	564	344 214 256	1,081	248 58 604	504	166 168 524	846
July	163 158 129	677	338 819 219	890	131 148 112	601	451 303 233	762
October November	108 127 135	r391	267 226 222	r692	138 126 104	r578	446 185 181	r742
1975 January February March	154 (NA)		217 (NA)		168 (NA)		307 (NA)	
April								
July								
October November								

NA=not available; p=preliminary; r=revised; e=estimated. $^1\,\mathrm{See}$ "New Features and Changes for This Issue," page 3.



		Defense Department mil in the	itary prime contract aw United States, DOD-Co	ards for work performe entinued	ed	prime contra	partment military ct awards for	
Year	636. Contracts	under \$10,000		al and nonprofit	638. Civilian Health and Medical Program of the Uniformed		e the United , DOD	
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1973		(1)		(1)			(1)	
January February	341 320 334	1,003	41 45 43	152	34 0 13	156 151 125	527	
April	356 319 551	977	46 35 76	168	10 -1 0	213 83 264	64	
July	225 210 390	997	61 123 86	259	0 10 229	368 244 159	49	
October	319 335 326	1,059	85 87 29	169	35 0 13	194 240 186	83	
January	327 333 329	996	76 55 58	224	63 0 13	160 114 198	59	
March	384 382 570	1,066	37 38 70	156	0 0 20	80 94 333	55	
July	225 321 380	1,116	162 118 51	316	100 0 0	421 448 120	63	
October	399 374 343	rl,204	46 59 92	r159	240 7 0	190 93 111	r55	
1975 January February March	(NA)		51 (NA)		(NA)	114 (NA)		
April				-				
July								
October November December								

NA=not svailable; p=preliminary; r=revised; e=estimated. $^1\, \rm See$ "New Features and Changes for This Issue," page 3.



		Defense Dep	artment gross unpa	id obligations outs	tanding, DOD		648. Manu		650. Manufac- turers' new orders from the
	643.	Total	644. 0	perations	645. Pr	ocurement	products		U.S. Govern- ment, aerospace
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	industries, Census, seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973		(1)		(1)		(1)			(1)
January February March	35,171 35,287 34,766	34,280 34,426 34,976	5,741 5,589 5,273	5,381 5,523 5,586	22,326 22,721 22,469	21,718 21,953 22,291	1,618 1,633 1,804	1,589 1,680 1,758	4,060
April	34,297 33,409 34,621	35,140 35,693 35,877	5,424 5,227 5,301	5,807 5,886 6,044	22,044 21,753 22,806	22,244 22,565 22,558	1,900 1,789 1,956	1,783 1,709 1,754	4,095
July	e35,500 37,069 36,829	e36,188 36,666 36,285	e6,200 6,754 6,719	e6,385 6,420 6,454	e22,100 22,432 22,195	e22,620 22,960 22,556	1,175 1,898 1,338	1,676 1,664 1,720	3,568
October November December	38,039 37,680 37,244	36,682 36,869 36,839	7,519 7,193 7,064	6,660 6,673 6,994	22,679 22,877 22,932	22,656 22,763 22,615	1,827 2,124 1,450	1,635 1,803 1,831	4,199
January February March	38,249 37,963 37,249	37,280 37,001 37,436	7,425 7,055 6,779	6,959 6,964 7,189	23,791 24,032 23,847	23,143 23,175 23,634	2,183 2,064 1,462	1,852 1,802 1,794	4,737
April	37,264 35,601 37,545	38,141 38,076 38,947	7,044 6,476 7,373	7,550 7,301 8,417	23,778 23,123 23,994	23,970 23,987 23,756	1,527 2,079 1,752	1,844 1,710 1,904	3,105
July	e39,626 40,594 41,055	e40,435 40,152 40,488	e8,149 8,426 8,311	e8,392 8,010 7,991	e24,316 23,791 24,283	e24,914 24,351 24,703	1,377 3,229 1,678	1,940 1,919 1,965	p5,453
October	41,201 40,949 40,407	39,731 40,068 r40,047	8,607 7,906 7,654	7,610 7,334 r7,556	24,361 25,147 25,199	24,337 25,022 r25,024	1,401 2,351 1,668	1,951 r1,994 p1,788	(NA)
January February March	40,819 (NA)	39,823 (NA)	7,997 (NA)	7,495 (NA)	25,484 (NA)	24,838 (NA)	rl,635 pl,998		
April									
July									
October November December									

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 7 and 8.) 1 See "New Features and Changes for This Issue," page 3.



	hours, produc	weekly overtime tion workers, de- s industries, BLS	654. A	accession rate, defense industries, BLS	e products	655. L	ayoff rate, defense industries, BLS	products
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*
	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)
1973	(1)	(1)	(1)	(1)	(¹)	(1)	(1)	(1)
January February March	2.9 r3.0 2.9	r3.0 r3.1 3.0	2.5 2.0 2.0	r2.5 r2.3 r2.2	2.3 r2.3 2.3	0.8 r0.6 0.7	0.5 0.5 0.5	r0.5 0.5 0.5
April	2.8 2.9 2.8	3.1 3.2 2.8	2.0 2.2 2.9	2.2 2.2 2.2	2.2 2.2 2.2	0.6 0.5 0.5	r0.5 r0.6 0.7	r0.5 0.6 r0.6
July	2.7 2.8 3.4	3.0 2.8 r3.1	2.5 2.6 2.4	2.3 r2.2 r2.1	2.2 2.2 2.3	0.6 0.5 0.4	0.8 0.6 0.5	0.7 0.6 0.6
October	3.2 3.6 3.7	r3.1 3.3 3.3	2.5 2.0 1.3	r2.5 2.2 2.0	2.3 2.2 2.2	0.6 0.7 0.5	0.5 0.6 0.6	r0.5 r0.5 0.5
1974 January February March	2.9 r2.7 r2.8	3.0 r2.8 2.9	2.1 1.8 1.9	2.1 r2.1 r2.1	2.1 r2.1 2.1	0.7 r0.6 0.6	r0.5 0.5 r0.5	0.5 0.5 0.5
April	r2.1 2.8 3.0	r2.4 3.1 3.0	2.1 2.2 2.8	2.3 2.2 2.1	r2.2 2.2 2.2	0.6 0.5 0.5	r0.5 r0.6 r0.6	r0.5 r0.5 0.6
July	r2.7 r2.8 2.9	r3.0 2.9 2.6	r2.6 2.6 2.6	r2.4 2.2 r2.3	2.2 r2.3 r2.3	0.4 0.5 0.5	0.6 0.6 0.6	0.6
October	2.8 2.9 3.0	r2.7 r2.6 2.6	2.1 1.3 0.9	r2.1 1.5 1.6	2.0 1.9 (NA)	0.7 0.8 0.8	0.6 0.7 0.8	0.6 0.7 (NA)
1975 January February March	p2.3 (NA)	p2.4 (NA)	(NA)	(NA)		(NA)	(NA)	
April								
July								
October								

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 8.)

¹ See "New Features and Changes for This Issue," page 3.



	657. Output of defense and space	659. Manufacturers' inventories, defense	661, Manufacturers' unfilled orders,	664. Manufacturers' unfilled orders	666. Defense Department progress	670. Employs products indus	ment in defense stries, total, BLS
Year and month	equipment, FRB, seasonally adjusted*	products, Census, seasonally adjusted*	defense products, Census, seasonally adjusted*	from the U.S. Gov- ernment, aerospace industries, Census, seasonally adjusted*	payments out- standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
	1307-1007	(,,,,,,		(1)		Revised ¹	Revised
1973 January	79.8 80.6 80.1	5,210 5,248 5,266	19,060 19,123 19,343	15,533	6,942	1,160 1,160 1,156	1,156 1,159 1,158
April	80.0 79.7 80.1	5,384 5,384 5,477	19,659 19,780 20,211	16,084	7,026	1,154 1,152 1,159	1,159 1,160 1,162
July	81.1 79.7 79.8	5,434 5,555 5,528	19,824 20,210 20,013	15,904	7,139	1,158 1,159 1,166	1,163 1,165 1,163
October November	80.0 80.9 81.9	5,531 5,508 5,615	20,215 20,797 20,740	16,448	7,385	1,168 1,172 1,172	1,164 1,162 1,165
1974 January February March	81.4 80.9 81.0	5,679 5,837 5,966	21,372 21,827 21,678	17,383	7,781	1,167 1,160 1,158	1,163 1,159 1,160
April	80.6 82.2 81.7	5,978 6,119 6,201	21,622 22,107 22,261	16,858	8,104	1,157 1,153 1,159	1,162 1,161 1,162
July	82.6 82.7 83.1	6,303 6,431 6,377	22,208 23,941 23,979	pl8,682	8,531	1,160 1,123 1,168	1,166 1,129 1,166
October	r83.7	6,463 6,477 6,543	23,715 24,530 24,612	(NA)	9,166	1,179 1,179 1,168	1,175 1,170 1,161
1975 January February March	p81.6	6,503 (NA)	r24,603 p24,885			1,161 (NA)	1,157 (NA)
April May							
October November December							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts (See pages 9 and 10.)

1 See "New Features and Changes for This Issue," page 3.



	February 616 614 615 Alarch 614 615 Alarch 614 615 Alarch 614 615 Alarch 612 615 Alay 610 615 Alay 610 615 Alay 612 618 Alarch 613 Alarch 615 613 Alarch 615 613 Alarch 616 Alarch 617 Alarch 618 Alarch 619 Alarch 610 Alarch 610 Alarch 611 Alarch 612 Alarch 613 Alarch 614 Alarch 615 Alarch 616 Alarch 617 Alarch 618 Alarch 619 Alarch 610 Ala	673. Index of aggregate products	e weekly man-hours, defense industries, BLS	675. Index of aggregati	e weekly payrolls, productio products industries, BLS	
and		Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	
	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
1973	Revised ¹	Revised1	Revised1	Revised1	Revised ¹	
January February March	616 614	614	68.7 69.1 68.8	68.6 69.1 68.8	88.7 89.9 89.9	Revised ¹ 88.5 89.7 89.8
May	610 614	615	68.4 68.5 68.9	69.0 69.0 69.0	88.9 89.7 90.3	90.2 91.0 91.4
August	612 618	618 617	68.4 68.6 69.5	69.2 69.2 69.3	89.7 91.2 94.5	92.4 92.9 93.8
November	621	614	69.4 70.0 70.4	69.1 69.0 69.2	94.8 96.4 99.2	94.2 94.0 95.1
January February March	615	613	69.0 68.7 68.7	68.9 68.7 68.7	95.4 95.1 95.6	95.2 94.8 95.4
May	606 607	611	67.7 68.4 68.3	68.3 68.8 68.4	92.6 96.0 95.3	93.9 97.4 96.5
August	568	574	67.7 65.3 68.7	68.6 65.9 68.5	93.4 88.1 98.2	96.3 89.8 97.6
November December	624	617	69.3 69.6 69.5	69.1 69.0 68.3	101.2 103.6 104.7	100.6 101.1 100.3
January February March			p68.2 (NA)	p68.2 (NA)	pl00.9 (NA)	pl00.8 (NA)
April May June July August September Joctober Jovember Jecember						

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 10.)

See "New Features and Changes for This Issue," page 3.



	Defense Departmen	t manpower, DOD		Defense	Department net outlays	, DOD	
Year and month	677. Military, not seasonally adjusted*	678. Civilian, not seasonally adjusted*	680. Tota	l, military functions and assistance	d military	681. Ope	rations
and			Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973				(1)	(¹)		(1)
January February March	2,334 2,314 2,291	1,073 1,057 1,051	6,388 6,054 6,736	6,256 6,377 6,366	6,295 6,288 6,220	4,119 3,988 4,217	4,107 4,162 4,167
April	2,274 2,256 2,253	1,051 1,051 1,031	6,222 6,213 7,854	6,194 5,896 6,597	6,281 6,235 6,291	4,087 4,033 4,537	3,970 3,946 3,935
July	2,251 2,237 2,232	1,019 1,022 1,019	5,005 6,649 5,967	5,978 6,716 6,598	6,330 6,371 6,503	3,669 4,279 4,027	4,018 4,228 4,316
October November December	2,227 2,218 2,202	1,022 1,026 1,026	6,527 6,766 5,953	6,444 6,683 6,228	6,441 6,534 6,535	4,105 4,359 4,066	4,156 4,378 4,226
January February March	2,199 2,195 2,187	1,034 1,039 1,042	6,728 6,384 6,702	6,538 6,717 6,536	6,524 6,527 6,537	4,376 4,137 4,398	4,333 4,313 4,364
April	2,174 2,156 2,162	1,046 1,053 1,070	6,685 7,204 7,872	6,458 6,745 6,894	6,648 6,712 6,801	4,367 4,718 4,835	4,221 4,536 4,296
July	2,162 2,153 2,157	1,074 1,064 1,049	5,979 6,897 6,948	6,921 7,254 7,463	6,956 7,068 7,218	4,628 4,804 4,575	4,917 4,957 4,828
October November December	2,156 2,154 2,140	1,046 1,046 1,043	7,271 7,473 7,451	7,130 7,648 7,549	7,328 r7,302 p7,354	4,817 4,912 4,742	4,853 5,042 4,843
1975 January February March	r2,145 p2,146	1,038 (NA)	r7,051 p7,239	r6,766 p7,570		r4,775 p4,721	r4,605 p4,901
April							
July							
October November							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 10 and 11.) ¹ See "New Features and Changes for This Issue," page 3.



	Defense De	partment net outlays, D	OD -Continued		ays for the national ction, Treasury		partment personnel ation, DOD
Year		682. Procurement		Seasonally adjusted*	Moving average of seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*		data-6-month*		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973		(1)	(¹)	Revised ¹	Revised ¹		Revised
January	1,355 1,243 1,439	1,367 1,329 1,291	1,301 1,306 1,291	6,534 6,563 6,561	6,492 6,496 6,440	2,811 2,666 2,728	2,686 2,720 2,693
April	1,287 1,315 1,649	1,330 1,243 1,371	1,322 1,245 1,276	6,500 6,164 6,666	6,498 6,384 6,419	2,675 2,736 2,615	2,686 2,666 2,655
July	863 1,450 1,239	907 1,513 1,344	1,285 1,300 1,318	5,849 6,776 6,754	6,451 6,458 6,554	2,712 2,735 2,615	2,707 2,705 2,720
October	1,487 1,268 1,124	1,425 1,349 1,250	1,298 1,357 1,318	6,542 6,735 6,416	6,512 6,632 6,642	2,732 2,765 2,589	2,732 2,771 2,663
January February March	1,270 1,195 1,313	1,262 1,276 1,241	1,300 1,289 1,268	6,569 6,835 6,579	6,613 6,617 6,640	2,879 2,651 2,700	2,738 2,702 2,687
April	1,382 1,292 1,346	1,355 1,227 1,165	1,254 1,179 1,204	6,567 6,874 6,973	6,733 6,768 6,831	2,750 2,817 2,710	2,739 2,745 2,782
July	801 1,348 1,251	810 1,425 1,343	1,221 1,224 1,270	6,783 7,212 7,362	6,962 7,112 7,254	2,835 2,814 2,741	2,793 2,837 2,823
October	1,455 1,372 1,439	1,377 1,501 1,569	1,338 r1,440 p1,444	7,467 7,727 7,809	7,393 7,436 (NA)	2,869 2,827 2,874	2,864 2,864 2,924
January	1,427 pl,351	rl,428 pl,444		7,039 (NA)		p2,890 (NA)	p2,741 (NA)
April							
July							
October							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 11.)

See **New Features and Changes for This Issue, ** page 3.



		s' shipments, defense ts, Census	689. Manufacturers' shipments to the	691. Ratio, manufa to shipments, def	acturers' unfilled orders ense products, Census		cturers' inventories to se products, Census
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*	U.S. Government, aerospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*
	1973 Y		(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1973			(1)				
January February March	1,570	1,575	3,599	11.7 12.2 12.2	12.3 12.3 12.2	3.2 3.3 3.3	3.3 3.3 3.3
April	1,669	1,585	3,607	12.4 11.9 13.2	12.3 12.4 12.6	3.4 3.2 3.6	3.3 3.4 3.4
July	1,511	1,552	3,612	12.7 13.4 13.0	12.8 12.8 13.0	3.5 3.7 3.6	3.5 3.5 3.6
October	1,541	1,552	3,611	12.4 13.5 13.8	13.1 13.3 13.4	3.4 3.6 3.7	3.6 3.6 3.6
January	1,552 1,610 1,612	1,564 1,573 1,591	3,721	13.8 13.6 13.4	13.4 13.6 13.7	3.7 3.6 3.7	3.6 3.7 3.7
April	1,586 1,594 1,596	1,600 1,564 1,541	3,802	13.6 13.9 13.9	13.7 14.0 14.4	3.8 3.8 3.9	3.8 3.9 4.0
July	1,431 1,497 1,638	1,551 1,565 1,553	p3,856	15.5 16.0 14.6	14.6 14.7 15.0	4.4 4.3 3.9	4.0 4.0 4.1
October	1,663 1,536 1,585	1,584 rl,613 pl,629	(NA)	14.3 16.0 15.5	15.3 r15.2 p15.0	3.9 4.2 4.1	4.1 4.1 (NA)
January	rl,644 pl,717			r15.0 pl4.5		4.0 (NA)	
April							
July							
October							

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 12.)

1 See "New Features and Changes for This Issue," page 3.

Defense-Related Balance of Payments Components



		er U.S. military agency s (exports), BEA	547. Direct defense expenditures (imports),		nt cash receipts associated ales contracts, BEA
Year and month	Not seasonally adjusted	Seasonally adjusted*	BEA, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973	(1)	(¹)		(s)	(5)
January	***	***	1 200	600	554
February	326	342	1,175	520	224
March	***	***	***		
April	***	***	***	600	626
May	509	446	1,209	544	535
June	***	***	***	***	***
July		***	***	***	
August	466	520	1,067	610	665
September	***	***	***	***	
October	***		***	***	***
November	1,054	1,046	1,169	616	536
December	***	***	***	***	***
1974					
January	***	***	***	.00	601
February	643	r666	1,166	488	521
March	***	***	***	***	
April	***	***		***	***
May	732	r651	1,319	678	669
June		***	***	***	***
July		***	***		***
August	r729	r805	rl,278	r917	r971
September	***	***	***	***	***
October			***	***	
November December	p862	p844	pl,302	p820	p742
January February					
April					
July					
October November December					

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 13.)

As not available, p-preliminary, review, e-estimated. Amorates sense shown in chart. See page 13, 1 Includes deliveries for which, under Public Law 93-199, Israel has been released from its contractual liability to pay.

Excludes funds made available under Public Law 93-199 to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Law 93-199 amounted to (in millions): 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91.

Appendix A. SEASONAL ADJUSTMENT FACTORS

	Series title			19	974					19	75		
_	MONTHLY SERIES	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Defe	nse Department gross obligations incurred:												
	617. Total	116.3	107.2	95.2		92.6	89.5	112.4	92.5	86.7	93.3	82.9	
	619. Operations'	115.5	100.4	94.7	107.9	93.4	90.5	106.3	88.2	91.2	104.1	93.0	112.9
000	621. Procurement	69.4	83.7	104.2	118.2	97.1	115.0	133.1	104.0	84.9	80.5	62.0	164.0
623.	Gross obligations incurred outside the Federal Government	113.8	105.1	92.6	108.1	96.6	97.5	106.4	87.7	92.5	94.6	87.7	114.0
625.	for national defense ¹ Defense Department military prime contract awards for	117.0	103.1	72.0	100.1	70.0	21.2	100.4	01.1	76.7	74.0	01.1	Like
020.	work performed in the United States	112.3	98.5	102.4	100.1	84.9	103.3	96.6	83.3	93.2	70.7	69.1	175.6
Defe	nse Department gross unpaid obligations outstanding:2			202	200 0	200.0		200 5	700.0	200.0	00 4	00 /	05.5
	643. Total	98.0	101.1	101.4		102.2	100.9	102.5	102.2	99.2	97.8	93.6	95.1
	644. Operations	97.1	105.2	104.0	113.1	107.8	101.3	106.7	100.8	93.7	99.9	96.9	99.
240	645. Procurement Manufacturers' new orders, defense products ³	178.1	85.4	116.2	104.9	91.8	106.5	94.9	98.1	98.4	87.5	71.2	93.
	Average weekly overtime hours, production workers, defense	TIOOT	07.4	110.2	204.7	71.0	100.)	74.7	70.1	70.4	01.0	12.00	128.
100.	products industries ⁴	3	1	.3	.1	.3	.4	1	1	1	3	2	
54.		.2	.4	.3	.0	2	7	.0	3	2	2	.0	
55.		2	1	1	.1	.1	1	.2	.1	.1	.0	1	:
557.	Output of defense and space equipment ³	98.6	98.9	100.1	100.1	100.9	101.8	100.0	99.9	100.4	99.4	99.9	100.
559.		100.2	99.2	99.7	100.6	100.6	99.4	98.6	99.8	101.3	100.6	100.0	99.9
61.	Manufacturers' unfilled orders, defense products ³	101.0	99.7	100.5	101.0	99.9	99.8	101.0	101.2	101.0	99.8	97.3	96.3
Emp	oyment in defense products industries:	00.5	00.5	700.0	700.0	200 0	200 (200.0	100.1	00.4	00.7	200 /	00.7
	670. Total	99.5	99.5	100.2	100.3	100.8	100.6	100.3	100.1	99.8	99.6	99.4	99.8
272	671. Production workers	99.0	99.0	100.1	100.3	101.2	101.2	100.0	100.4	99.9	99.6	99.1	99.
113.	Index of aggregate weekly man-hours, defense products	98.7	99.1	100.3	100.3	101.4	101.7	100.0	100.0	99.9	99.2	99.4	99.8
675.	industries	,0.,	77.4	200.)	200.5	TOTAM	Tores	20010	100.0	177.7	77114	77.14	77.00
or o.	defense products industries	97.0	98.1	100.7	100.6	102.5	104.4	100.1	100.4	100.2	98.6	98.6	98.8
Defe	nse Department net outlays:												
	680. Total, military functions and military assistance ¹	86.4	95.1	93.1	102.0	97.7	98.7	104.2	95.6	100.8	103.3	103.8	118.0
	681. Operations ¹	94.1	96.9	94.8	99.3	97.4	97.9	103.7	96.3	99.1	104.5	98.9	112.7
	682. Procurement ¹	98.9	94.6	93.1	105.7	91.4	91.7	99.9	93.6	104.1	102.2	104.3	116.0
583.	Budget outlays for the national defense function 1	86.4	95.7	93.4	102.5	99.3	97.1	103.8	95.3	100.7	103.5	102.7	118.1
685. 688.	Defense Department personnel compensation Manufacturers' shipments, defense products	101.5	99.2	97.1	100.2	98.7	98.3	105.5	98.1 96.4	100.5	101.1	100.7	105.6
	QUARTERLY SERIES		IIIQ			IVQ			10			IIQ	
									-/ -	-			
200.	Gross national product ³		98.4			104.5			96.1			100.9	
264.	. ent ment but entress en demon une entressé transmission menerale		95.0			100.9			-16			63	
	Transfers under U.S. military agency sales contracts-exports ⁵		-74			0			-10			0)	
Defe	nse Department military prime contract awards: 626. Aircraft		104.1			89.0			92.8			115.6	
	627. Missile and space systems		130.9			108.9			88.4			69.9	
	629. Weapons and ammunition		48.6			120.1			97.5			138.7	
	630. Electronic and communications equipment		81.7	1		96.9			92.8			127.2	
	631. Combat vehicles		126.2			101.4			48.2			141.1	
	632. Other hard goods		66.5	-		94.6			90.3			146.0	
	633. Soft goods	1	154.6			103.3			74.7			75.7	
	634. Construction		65.1			63.7			89.1			181.4	
	635. Services		129.6			109.5			60.8			105.4	
	636. Under \$10,000		83.0			92.7			99.3			91.5	
	637. Educational and nonprofit institutions		104.7			70.5			78.1			88.2	
Aero	space industries:												
-	650. Manufacturers' new orders from the U.S. Government		123.4			97.3			91.3			89.6	
	664. Manufacturers' unfilled orders from the U.S. Government .		102.5			101.1			100.7			95.9	
			98.9			104.5			94.2			102.3	
	689. Manufacturers' shipments to the U.S. Government U.S. Govt. cash receipts associated with military sales contracts'		-55			80			-34			9	

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department manpower (series 677 and 678) contain no measurable seasonal variation.

¹ Factors are products of seasonal and trading-day factors.

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation. $\ ^{\perp}$

³These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

*These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

⁵ This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

² Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

Series title	Period covered	ō	cī	ī	c	ī/c	MCD		duration (ADR)
	COVERED							CI	MCD
Defense Department gross obligations incurred:									
617. Total	Jan. '57-Jan. '74	18.68	7.38	7.29	0.75	9.72	6	1.53	2 2
619. Operations	July '59-Jan. '74		2.61	2.50	.64	3.88	4	1.72	3.0
621. Procurement	Jan. '57-Jan. '74	45.13	22.23	22.10	1.68		6	1.49	2.1
623. Gross obligations incurred outside the Federal Government for national			2000	200	2.00	20.20	0	1.42	Cil
defense 625. Defense Department military prime contract awards for work performed	July '63-Jan. '74	(NA)	6.94	6.82	.74	9.21	6	1.52	2.4
in the United States, total	Jan. '57-Jan. '74	33.17	15.07	14.94	1.32	11.33	6	1.39	2.0
Defense Department gross unpaid obligations outstanding:			22,01	2.11.2.1	2000	22100		2002	2.00
643. Total	Jan. '57-Jan. '74	2.08	1.36	.90	.91	.99	1	2,58	2.5
644. Operations	Jan. '67-Jan. '74	5.47	2.48	2.16	1.06	2.03	3	2.00	4.8
645. Procurement	Jan. '67-Jan. '74	2.49	1.51	.99	.99	1.00	2	2.15	4.8
Manufacturers' new orders:							-	200	
647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	.97	15.32	6	1.58	2.3
648. Defense products	Feb. '68-Jan. '74	25.69	19.12	19.01	1.59	11.94	6	1.45	2.0
653. Average weekly overtime hours, production workers, defense products							-		~
industries (hours)	Jan. '58-Jan. '74	.22	.13	.13	.05	2.84	3	2.13	4.2
654. Accession rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.39	.16	.15	.05	3.12	4	2.26	3.5
655. Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '74	.17	.13	.13	.04	3.07	4	2.02	4.1
657. Output of defense and space equipment	Jan. '54-Jan. '74	(NA)	.98	.48	.79	.60	1	4.07	4.0
Manufacturers' inventories:								1001	
658. Defense products industries	Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2.80	2.1
659. Defense products	Jan. '68-Jan. '74	1.89	1.74	1.16	1.27	.92	1	3.00	3.0
Manufacturers' unfilled orders:									
660. Defense products industries	Jan. '57-Mar. '72	(NA)	1.23	.90	.83	1.09	2	2.76	3.4
661. Defense products	Jan. '68-Jan. '74	1.93	1.64	1.11	.99	1.11	2	2.77	3.5
Employment in defense products industries:									
670. Total	Jan. '58-Jan. '74	.74	.68	.25	.60	.42	1	4.68	4.6
671. Production workers	Jan. '58-Jan. '74	1.02	.86	.43	.69	.63	1	3.62	3.6
673. Index of aggregate weekly man-hours, defense products industries	Jan. '58-Jan. '74	.92	.75	.35	.62	.56	1	4.09	4.0
875. Index of aggregate weekly payrolls, production workers, defense products									
industries Defense Department manpower:	Jan. '58-Jan. '74	1.61	1.07	.65	.81	.80	1	3.05	3.0
677. Military @	1- 153 1- 134								
678. Civilian @	Jan. '57-Jan. '74	.66	(NA.)	.26	.59	. Lehe	1	4.25	4.2
Defense Department net outlays:	Jan. '57-Jan. '74	.55	(NA)	.33	.43	.79	1	4.25	4.2
690 Total military functions and military assistance	L (63 L (34	0.00							
680. Total, military functions and military assistance	Jan. '57-Jan. '74	9.06	3.97	3,87	.75	5.18	6	1.71	3.1
681. Operations	July '59-Jan. '74	7.57	3.52	3.31	.70	4.75	5	1.61	2.4
682. Procurement	Jan. '57-Jan. '74	15.02	11.57	11.44	1.55	7.38	6	1.59	2.8
85. Defense Department personnel compensation	Jan. '57-Jan. '74	(NA)	4.09	4.02	.69	5.82	6	1.58	3.0
Annufacturers' shipments:	Jan. '67-Jan. '74	2.72	1.40	1.21	.53	2.29	4	2.55	4.2
687. Defense products industries	len '57 May '72	/200 X	0.00	0 10	-	0.00			
688. Defense products	Jan. '57-Mar. '72	(NA)	2.67	2.49	.87	2.85	3	1.64	3,4
latio, manufacturers' unfilled orders to shipments:	Jan. '68-Jan. '74	6.98	4.45	4.40	.95	4.62	5	1.41	2.8
690. Defense products industries	low /57 May /72	Care A							
691. Defense products	Jan. '57-Mar. '72	(NA)	2.95	2.71	.96	2.82	4	1.90	3.8
Ratio, manufacturers' inventories to shipments:	Jan. '68-Jan. '74	8.23	5.09	5.05	.93	5.46	6	1.60	3.0
692. Defense products industries	Inn 157 May 122	(NY)	0.01	0.00	77.0	1 00			
693. Defense products	Jan. '57-Mar. '72 Jan. '68-Jan. '74	(NA)	2.84	2.90	.72	4.01	5	2.46	5.7
www. Delivines products	Jan. 00-Jan. /4	8.05	5.37	5.44	.75	7.20	6	1.76	3.3

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). @ indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

"O" is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

" \overline{C} " is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

"I" is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

" $\overline{1}/\overline{C}$ " measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term trend.

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

Part 2. Quarterly Series

Series title	Period covered	ō	CI	ī	c	ī/C	aco		duration (ADR)
	Covered							CI	QCD
200. Gross national product		5.70	1.79	0.32	1.73	0.18	1	9.57	9.57
264. Federal Government purchases of goods and services, national defense	10 '57-IVQ '73	6.18	2.00	.76	1.71	.45	1	3.05	3.05
*546. Transfers under U.S. military agency sales contracts-exports (mil. dol.)	IQ '60-IVQ '73	76.33	54.22	39.30	29.71	1.32	2	1.67	2.35
*547. Direct defense expenditures-imports (mil. dol.) @		34.27	(NA.)	26.55	21.70	1.22	2	1.83	2.70
613. National defense purchases as a percent of GNP (percent)		.33	.18	.08	.16	.48	7	5.58	5.58
650. Manufacturers' new orders from the U.S. Government, aerospace			***	,00	****	****	-	2.20	2.20
industries	IQ '61-IVQ '73	(NA)	16.77	14.80	5.06	2.92	4	1.38	1.66
664. Manufacturers' unfilled orders from the U.S. Government, aerospace		(1005)	AURIT	T4*00	3,00	2.76	*	1.30	7.00
industries	IQ '61-IVQ '73	(NA)	3.75	2.31	2.51	.92	2	2.32	0.30
666. Defense Department progress payments outstanding @	IQ '57-IVQ '73	4.73	(NA)	1000000			7		2.32
689. Manufacturers' shipments to the U.S. Government, aerospace industries				2.25	4.22	.53	1	2.48	2.48
696. U.S. Government cash receipts associated with military sales contracts	14 01-144 /3	(NA)	4.16	3.27	1.99	1.64	2	1.70	2.27
(million dollars)	IQ '60-IVQ '73	00.00	mn	0-	20	7 10			
	10 00-140 /3	96.62	73.64	56.86	38.62	1.47	2	1.57	2.35

NA = not available.

*Measures for these series are based on actual changes rather than percent changes (see definition below). Measures are based on unadjusted data.

@indicates

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

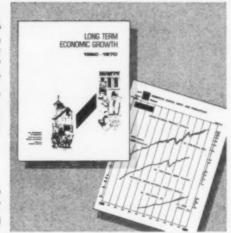
These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, $\overline{C1}$ is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "OCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend. QCD is the shortest span of quarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.

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ANN ARBOR MI 48106 ALPHABETICAL INDEX—SERIES FINDING GUIDE

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Compat venicles	631		17	5/74	8/68	Obligations incurred, gross					
	634	***	18	5/74	8/68	Defense Department, operations	619 621	6	15 15	4/74	8/6
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	633 625	7	18 16	5/74	8/68	Net outlays	681	See Dutla	IVS.		
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						Unpaid obligations outstanding Progress payments outstanding, Defense Department	645 666		ations outs		0.100
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industries	671	10	23	5/74	4/73	Shipments, manufacturers'			1		
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expenditures—See Duflays.		1	1	1	- 1	Ratio, unfilled orders to shipments, defense products		See Unfille	ed orders		
			- 1	1		industries To Government, serospace industries	690	1	1		W 1950
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defence	264	See Gross	national pr	oduct.		Transfers under military agency sales contracts	546	See Balance	e of payme	ents	
riss national product								1	- St buying		
Federal purchases of goods and services for national	i					Untilled orders, manufacturers' Defense products	661			0.05	
defense	264	5	14	9/74	10/73	Defense products industries	660	9	22	8/74	2/73
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ross obligations incurred—See Obligations incurred.	013	5	14	9/74	10/73	Ratio to shipments, defense products Ratio to shipments, defense products industries	691	12	26	8/74	2/73
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